Mathematical Biosciences

Mathematical Biosciences is abstracted or indexed in Applied Mechanics Review, Biological Abstracts, CABS/ Current Awareness in Biological Sciences, Chemical Abstracts, Current Contents, Engineering Index, Excerpta Medica, INSPEC, International Abstracts of Biological Sciences, Mathematical Reviews, and Medicus/ MEDLINE.

Volume 168

R.B. Schinazi, Horizontal versus vertical transmission of parasites in a stochastic spatial model 1

L. Demetrius and V.M. Gundlach, Game theory and evolution: finite size and absolute fitness measures 9

E. Pollak, The effective population size of some age-structured populations 39

E. Renshaw, Applying the saddlepoint approximation to bivariate stochastic processes 57

H.A. Levine, B.D. Sleeman and M. Nilsen-Hamilton, A mathematical model for the roles of pericytes and macrophages in the initiation of angiogenesis. I. The role of protease inhibitors in preventing angiogenesis 77

T.J. Hagenaars, C.A. Donnelly, N.M. Ferguson and R.M. Anderson, The transmission dynamics of the aetiological agent of scrapie in a sheep flock 117

N.D. Evans and M.J. Chappell, Extensions to a procedure for generating locally identifiable reparameterisations of unidentifiable systems 137

V.T. Stefanov and S. Wang, A note on integrals for birth–death processes 161

I. Geisler and A. Kopp-Schneider, A model for hepatocarcinogenesis with clonal expansion of three successive phenotypes of preneoplastic cells 167

A.J. Coldman and J.M. Murray, Optimal control for a stochastic model of cancer chemotherapy 187

X.-a. Zhang, L. Chen and A.U. Neumann, The stage-structured predator–prey model and optimal harvesting policy 201

2000 Author index 211

2000 Subject index 213

Volume Contents

Guide for Authors

Elsevier